WHAT IS CLAIMED IS:

1	1. A method of encrypting a shared document, comprising:
2	under control of an encryption server system,
3	generating a ECC public/private key pair for the encryption server
4	system;
5	under control of a client system,
6	requesting a Java® encryption applet from the encryption server
7	system;
8	requesting an encryption server system EEC public key from the
9	encryption server system;
10	under the control of the encryption server system,
11	transmitting the Java® encryption applet to the client system over a
12	secure channel;
13	transmitting the encryption server system EEC public key to the client
14	system over a secure channel;
i 15	under control of a client system,
16	receiving the Java® encryption applet from the encryption server
17	system over a secure channel;
18	receiving the encryption server system EEC public key from the
19	encryption server system over a secure channel;
<u>2</u> 0	installing the Java® encryption applet on the client system;
21	running the Java® encryption applet on the client system to generate a
22	Triple DES symmetric key;
23	encrypting a clear text document with the Triple DES symmetric key,
24	thereby creating a cipher text document;
25	creating a relationship between the cipher text document and the Triple
26	DES symmetric key;
27	encrypting Triple DES symmetric key with the encryption server EEC
28	public key, thereby creating an encrypted Triple DES symmetric
29	key;
30	creating a relationship between the cipher text document and the
31	encrypted Triple DES symmetric key;
32	transmitting the cipher text document to the encryption server system;

transmitting the encrypted Triple DES symmetric key to the encryption

33

4

5

encrypted Triple DES symmetric key by making a first and a

second entry in a correlation table, the first entry representing the

	6			encrypted Triple DES symmetric key, and the second entry
	7			representing the cipher text document.
	1	;	8.	The method of claim 7, wherein the first entry is the encrypted Triple
	2	DES symmetric	key a	nd the second entry is the cipher text document.
	1		9.	The method of claim 7, wherein the first entry is a pointer to the
	2			symmetric key and the second entry is a pointer to the cipher text
		document.	C DLS	symmetric key and the second chary to a position to the expense com-
	3	document.		
	1		10.	The method of claim 1, further comprising the steps of:
	2	,	under t	the control of the encryption server system,
	3			decrypting the encrypted Triple DES symmetric key with the
# 114g	4			encryption server system EEC private key, thereby creating a
73	5			decrypted Triple DES symmetric key;
, in the same of t	6			decrypting the cipher text document with the decrypted Triple DES
	7			symmetric key, thereby creating a clear text document; and,
graft girth trough those street street graft graft	8			storing the clear text document on the encryption server system.
	1		11.	The method of claim 7, further comprising the steps of:
and the first out that their states	2		under 1	the control of the encryption server system,
	3			using the first entry in the correlation table to retrieve the encrypted
	4			Triple DES symmetric key;
	5			decrypting the encrypted Triple DES symmetric key using the
	6			encryption server system EEC private key, thereby creating a
	7			decrypted Triple DES symmetric key;
	8			decrypting the cipher text document with the decrypted Triple DES
	9			symmetric key, thereby creating a clear text document;
	10			storing the clear text document on a storage medium; and
	11			making a third entry in the correlation table, thereby creating a
	12			relationship between the cipher text document, the clear text
	13			document and the encrypted Triple DES symmetric key.
	1		12.	The method of claim 11, wherein the third entry is the clear text
	2	document.		,

1	13. The method of claim 11, wherein the third entry is a pointer to the
2	clear text document.
1	14. The method of claim 7, further comprising the steps of:
2	under control of the client system,
3	requesting the cipher text document from the server;
4	under control of the encryption server system,
5	using the first entry in the correlation table to retrieve the encrypted
6	Triple DES symmetric key;
7	decrypting the Triple DES symmetric key using the encryption server
8	system EEC private key, thereby creating a decrypted Triple DES
9	symmetric key;
10	inserting the Triple DES symmetric key into a Java® decryption
11	applet;
110 111 12	sending the Java® decryption applet to the client system over a secure
13	channel;
13 14	sending the cipher text document to the client system;
15	under control of the client system,
<u> 16</u>	installing the Java® decryption applet on the client system; and,
¹ 17	decrypting the cipher text document using the Java® decryption applet
18	thereby creating a clear text document.
1	15. The method of claim 14, wherein the Java® decryption applet is
2	installed on a browser.
1	16. The method of claim 15, wherein the browser is the Internet Explorer®
2	or the Netscape Navigator®.
1	17. The method of claim 10, further comprising the steps of:
2	under control of the client system,
3	requesting the clear text document from the server;
4	under control of the encryption server system,
5	generating a Triple DES symmetric key;
6	encrypting the clear text document with the Triple DES symmetric
7	key, thereby creating a cipher text document;

8	inserting the Triple DES symmetric key into a Javass decryption
9	applet;
10	sending the Java® decryption applet to the client system over a secure
11	channel;
12	sending the cipher text document to the client system;
13	under control of the client system,
14	installing the Java® decryption applet on the client system; and,
15	decrypting the cipher text document using the Java® decryption applet,
16	thereby creating a clear text document.
1	18. The method of claim 17, wherein the Java® decryption applet is
2	installed on a browser.
1	19. The method of claim 18, wherein the browser is the Internet Explorer®
րան այր	or the Netscape Navigator®.
10 10 1	20. The method of claim 11, further comprising the steps of:
14 2	under control of the client system,
3	requesting the clear text document from the server;
	under control of the encryption server system,
1U 14 5	generating a Triple DES symmetric key;
# 4 5 5 6	encrypting the clear text document with the Triple DES symmetric
13 7	key, thereby creating a cipher text document;
8	inserting the Triple DES symmetric key into a Java® decryption
9	applet;
10	sending the Java® decryption applet to the client system over a secure
11	channel;
12	sending the cipher text document to the client system;
13	under control of the client system,
14	installing the Java® decryption applet on the client system; and,
15	decrypting the cipher text document using the Java® decryption applet,
16	thereby creating a clear text document.
1	21. The method of claim 20, wherein the Java® decryption applet is
2	installed on a browser

1	22. The method of claim 21, wherein the browser is the internet explorer
2	or the Netscape Navigator®.
1	23. The method of claim 1, further comprising the steps of:
2	under the control of the encryption server system,
3	decrypting the encrypted Triple DES symmetric key with the
4	encryption server system EEC private key, thereby creating a
5	decrypted Triple DES symmetric key; and,
6	decrypting the cipher text document with the decrypted Triple DES
7	symmetric key, thereby creating a clear text document.
1	24. A method of encrypting a shared document, comprising:
2	under control of a client system,
1 3	requesting a Java® encryption applet from the encryption server
3 4 4 5 5 6	system;
1 5	requesting an encryption server system EEC public key from the
6	encryption server system;
1.] 7	under the control of the encryption server system,
8	transmitting the Java® encryption applet to the client system over a
9	secure channel;
10	transmitting the encryption server system EEC public key to the client
: 11	system over a secure channel;
12	under control of a client system,
13	receiving the Java® encryption applet from the encryption server
14	system over a secure channel;
15	receiving the encryption server system EEC public key from the
16	encryption server system over a secure channel;
17	installing the Java® encryption applet on the client system;
18	running the Java® encryption applet on the client system to generate a
19	Triple DES symmetric key;
20	encrypting a clear text document with the Triple DES symmetric key,
21	thereby creating a cipher text document;
22	creating a relationship between the cipher text document and the Triple
23	DES symmetric key;

24	encrypting Triple DES symmetric key with the encryption server EEC
25	public key, thereby creating an encrypted Triple DES symmetric
26	key;
27	creating a relationship between the cipher text document and the
28	encrypted Triple DES symmetric key;
29	transmitting the cipher text document to the encryption server system;
30	transmitting the encrypted Triple DES symmetric key to the encryption
31	server system;
32	transmitting the relationship between the cipher text document and the
33	encrypted Triple DES symmetric key to the encryption server
34	system;
35	under the control of the encryption server system,
36	storing the cipher text document in a storage medium;
37	storing the encrypted Triple DES symmetric key in a storage medium;
L138	and
1 ¹ 39	storing the relationship between the document and the Triple DES
39	symmetric key in a storage medium.
# 1	25. An encryption system for shared documents, comprising:
•	an encryption server system and a client system;
14 - 14 3	the encryption server system,
2 3 3 4	generating a ECC public/private key pair for the encryption server system;
5	transmitting the Java® encryption applet to the client system over a secure
6	channel;
7	transmitting the encryption server system EEC public key to the client
8	system over a secure channel;
9	storing the encrypted document in a storage medium;
10	storing the encrypted Triple DES symmetric key in a storage medium;
11	storing the relationship created between the document and the Triple DES
12	symmetric key in a storage medium;
13	a client system,
14	requesting a Java® encryption applet from the encryption server
15	system;

requesting an encryption server system EEC public key from the

16

2

system is further comprised of:

	3	making a third entry in the correlation table, wherein the third entry represents
	4	the clear text document;
	5	creating a relationship between the cipher text document, the encrypted Triple
	6	DES symmetric key, and the clear text document; and,
	7	storing the relationship between the cipher text document, the encrypted Triple
	8	DES symmetric key, and the cipher text document.
	1	28. An encryption system for shared documents, comprising:
	2	an encryption server system and a client system;
	3	the encryption server system,
	4	using the first entry in the correlation table to retrieve the encrypted
	5	Triple DES symmetric key;
i grain	6	decrypting the Triple DES symmetric key using the encryption server
Min had	7	system EEC private key, thereby creating a decrypted Triple DES
7 P	8	symmetric key;
ij	9	inserting the Triple DES symmetric key into a Java® decryption
tool lines that world been then here than	10	applet;
	11	sending the Java® decryption applet to the client system over a secure
	12	channel;
And Sark Stare, IPA Spare	13	sending the cipher text document to the client system;
	14	under control of the client system,
	15	requesting the cipher text document from the server;
	16	under control of the encryption server system,
	17	installing the Java® decryption applet on the client system; and,
	18	decrypting the cipher text document using the Java® decryption applet,
	19	thereby creating a clear text document.
	1	29. An encryption system for shared documents, comprising:
	2	an encryption server system and a client system;
	3	under control of the encryption server system,
	4	generating a Triple DES symmetric key;
	5	encrypting the clear text document with the Triple DES symmetric
	6	key, thereby creating a cipher text document:

1	inserting the Triple DES symmetric key into a Javass decryption
8	applet;
9	sending the Java® decryption applet to the client system over a secure
10	channel;
11	sending the cipher text document to the client system;
12	under control of the client system,
13	requesting the clear text document from the server;
14	installing the Java® decryption applet on the client system; and,
15	decrypting the cipher text document using the Java® decryption apple
16	thereby creating a clear text document.
1	30. An encryption system for shared documents, comprising:
2	an encryption server system and a client system;
3	the encryption server system,
2 3 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	generating a ECC public/private key pair for the encryption server
1 5	system;
6	transmitting the Java® encryption applet to the client system over a
7	secure channel;
8 1 9	transmitting the encryption server system EEC public key to the client
<u> </u>	system over a secure channel;
10	storing the cipher text document in a storage medium;
11	storing the encrypted Triple DES symmetric key in a storage medium;
12	storing the relationship created between the cipher text document and
13	the encrypted Triple DES symmetric key in a storage medium;
14	using the first entry in the correlation table to retrieve the encrypted
15	Triple DES symmetric key;
16	decrypting the Triple DES symmetric key using the encryption server
17	system EEC private key, thereby creating a decrypted Triple DES
18	symmetric key;
19	inserting the encrypted Triple DES symmetric key into a Java®
20	decryption applet;
21	sending the Java® decryption applet to the client system over a secure
22	channel;
23	sending the cipher text document to the client system;

	24	decrypting the encrypted Triple DES symmetric key using the
	25	encryption server system EEC private key, thereby creating a
	26	decrypted Triple DES symmetric key;
	27	sending the cipher text document to the client system;
	28	generating a Triple DES symmetric key;
	29	encrypting the clear text document with the Triple DES symmetric
	30	key, thereby creating a cipher text document;
	31	a client system,
	32	requesting a Java® encryption applet from the encryption server
	33	system;
	34	requesting an encryption server system EEC public key from the
G 154	35	encryption server system;
of your grow grows of Att group floor	36	receiving the Java® encryption applet from encryption server system
1.11	37	over a secure connection;
	38	receiving an encryption server system EEC public key from the
***************************************	39	encryption server system over a secure channel;
M Hann Hann	40	installing the Java® encryption applet on the client system;
į d	41	running the Java® encryption applet on the client system to generate a
W A	42	Triple DES symmetric key;
had had gene agar ang had had tima ipa nam	43	encrypting a clear text document with the Triple DES symmetric key,
	44	thereby creating a cipher text document;
	45	creating a relationship between the cipher text document and the Triple
	46	DES symmetric key;
	47	encrypting Triple DES symmetric key with the encryption server EEC
	48	public key, thereby creating an encrypted Triple DES symmetric
	49	key;
	50	creating a relationship between the cipher text document and the
	51	encrypted Triple DES symmetric key;
	52	transmitting the document encrypted with the Triple DES symmetric
	53	key from the client system to the encryption server system;
	54	transmitting the Triple DES symmetric key encrypted with the
	55	encryption server system EEC public key from the client system to
	56	the encryption server system;

57	transmitting the relationship between the cipher text document and the
58	encrypted Triple DES symmetric key to the encryption server
59	system;
50	requesting the cipher text document from the server;
51	installing the Java® decryption applet on the client system; and,
52	decrypting the cipher text document using the Java® decryption applet,
53	thereby creating a clear text document; and,
54	requesting the clear text document from the server.

PA 3116007 v1